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PTO/SB/50 (4/98)

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REISSUE PATENT APPLICATION TRANSMITTAL

Address to: Assistant Commissioner of Patents Box Patent Application Washington, DC 20231	Attorney Docket No.	11872-022001/30-4016 US REISSUE
	First Named Inventor	Hasegawa et al.
	Original Patent Number	5,868,123
	Original Patent Issue Date	9 February 1999
	Express Mail Label No.	EE 647 187 295 US

APPLICATION FOR REISSUE OF:
(check applicable box)

☒ Utility Patent ☐ Design Patent ☐ Plant Patent

APPLICATION ELEMENTS	ACCOMPANYING APPLICATION PARTS
1. <input checked="" type="checkbox"/> * Fee Transmittal Form (PTO/SB/56) (Submit an original and a duplicate for fee processing)	7. <input type="checkbox"/> Foreign Priority Claim (35 U.S.C. 119) (if applicable)
2. <input checked="" type="checkbox"/> Specification and Claims (amended, if appropriate)	8. <input checked="" type="checkbox"/> Information Disclosure Statement (IDS)/PTO-1449 <input checked="" type="checkbox"/> Copies of IDS Citations
<input checked="" type="checkbox"/> Drawing(s) (Proposed amendments, if appropriate)	9. <input type="checkbox"/> English Translation of Reissue Oath/Declaration (if applicable)
4. <input checked="" type="checkbox"/> Reissue Oath / Declaration (original or copy)	10. <input type="checkbox"/> * Small Entity Statement(s) (PTO/SB/09-12) <input type="checkbox"/> Statement filed in prior application, status still proper and desired
5. Original U.S. Patent <input checked="" type="checkbox"/> Offer to surrender Original Patent (37 C.F.R. § 1.178) (PTO/SB/53 or PTO/SB/54)	11. <input type="checkbox"/> Preliminary Amendment
<input type="checkbox"/> Ribboned Original Patent Grant <input type="checkbox"/> Affidavit / Declaration of Loss (PTO/SB/55)	12. <input type="checkbox"/> Return Receipt Postcard (MPEP 503) (Should be specifically itemized)
6. Original U.S. Patent currently assigned? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No (If Yes, check applicable box(es))	13. <input checked="" type="checkbox"/> Other: Status of Claims and Support for Claims Changes
<input type="checkbox"/> Written Consent of all Assignees (PTO/SB/53 or 54) <input checked="" type="checkbox"/> 37 C.F.R. § 3.73(b) Statement <input type="checkbox"/> Power of Attorney	

* Note for items 1&10: IN ORDER TO BE ENTITLED TO PAY SMALL ENTITY FEES. A SMALL ENTITY STATEMENT IS REQUIRED (37 C.F.R. § 1.27), except if one filed in a prior application is relied upon (37 C.F.R. § 1.28)

14. CORRESPONDENCE ADDRESS

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Signature	<i>Stephan Filipek</i>	Date	8 FEBRUARY 2001

Burden Hour Statement: This form is estimated to take 0.2 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231

REISSUE APPLICATION FEE TRANSMITTAL FORM

DOCKET NUMBER (Optional)

11872-022001/30-4016 US REISSUE

Claims as Filed – Part 1

Claims in Patent	For	Number Filed in Reissue Application	(3) Number Extra	Small Entity		Or	Other than a Small Entity	
				Rate	Fee		Rate	Fee
(A) 7	Total Claims (37 CFR 1.16(j))	(B) 18	=	x \$ ____ =			x \$ ____ =	0.00
(C) 1	Independent Claims (37 CFR 1.16(i))	(D) 5	2	x \$ ____ =			x \$160 =	160.00
Basic Fee (37 CFR 1.16(h))				\$ ____				\$710.00
Total Filing Fee				\$ ____		OR		\$870.00

Claims as Amended – Part 2

	(1) Claims Remaining After Amendment		(2) Highest Number Previously Paid For	(3) Extra Claims Present	Small Entity		Or	Other than a Small Entity	
					Rate	Fee		Rate	Fee
Total Claims (37 CFR 1.16(j))		MINUS	**	* =	x \$ ____ =			x \$ ____ =	
Independent Claims (37 CFR 1.16(i))		MINUS	*****	=	x \$ ____ =			x \$ ____ =	
Total Additional Fee				\$ ____		OR		\$ ____	

* If the entry in (D) is less than the entry in (C), write "0" in column 3.

** If the "Highest Number of Total Claims Previously Paid For" is less than 20, Write "20" in this space

*** After any cancellation of claims

**** If "A" is greater than 20, use (B-A); If "A" is 20 or less, use (B-20).

***** "Highest Number of Independent Claims Previously Paid For" or Number of Independent Claims in Patent (c).

x Please Charge Deposit Account No. 01-1125 in the amount of \$870.00


A Duplicate Copy of this sheet is enclosed.

x The Commissioner is hereby authorized to charge any additional fees under 37 CFR 1.16 or 1.17 which may be required, or credit any overpayment to Deposit Account No. 01-1125

A duplicate copy of this sheet is enclosed.

☐ A check in the amount of \$ _____ to Cover the filing/additional fee is enclosed.8 FEBRUARY 2001

Date



Signature of Applicant, Attorney or Agent of Record

Stephan J. Filipek

Typed or Printed Name

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REISSUE APPLICATION BY THE INVENTORS, OFFER TO SURRENDER PATENT		Docket Number (Optional) 30-4016 REISSUE 11872-022001	PTO J1046 U.S. 09/779877 02/08/01
This is part of the application for a reissue patent based on the original patent identified below.			
Name of Patentee(s) Hasegawa et al.			
Patent Number 5,868,123		Date Patent Issued February 9, 1999	
Title of Invention MAGNETIC CORE-COIL ASSEMBLY FOR SPARK IGNITION SYSTEMS			
<p>I am the inventor of the original patent.</p> <p>I offer to surrender the original patent.</p> <p>1. <input checked="" type="checkbox"/> Filed herein is a certificate under 37 CFR 3.73(b).</p> <p>2. <input type="checkbox"/> Ownership of the patent is in the inventor(s), and no assignment of the patent has been made.</p> <p>One of boxes 1 or 2 above must be checked.</p> <p>The written consent of all assignees owning an undivided interest in the original patent is included in this application for reissue.</p>			
Signature		Date	
Typed or printed name			
The assignee owning an undivided interest in said original patent is <u>AlliedSignal Inc.</u> , and the assignee consents to the accompanying application for reissue.			
I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements my jeopardize the validity of the application, any patent issued thereon, or any patent to which this declaration is directed.			
Name of assignee AlliedSignal Inc.			
Signature of person signing for assignee <i>R. M. H. Criss</i>		Date February 7, 2001	
Typed or printed name and title of person signing for assignee Roger Criss, Esq., Assistant Secretary, AlliedSignal Inc.			

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hasegawa et al. Art Unit : Unknown
Serial No. : Examiner : Unknown
Filed :
Title : MAGNETIC CORE-COIL ASSEMBLY FOR SPARK IGNITION SYSTEMS

Commissioner for Patents
Washington, D.C. 20231

CERTIFICATE UNDER 37 CFR §3.73(b)

Under 37 CFR §3.73(b), AlliedSignal Inc., a corporation, certifies that it is the assignee of the entire right, title and interest in the patent application identified above by virtue of:

☐ An assignment from the inventors of the patent application identified above. The assignment was recorded in the Patent and Trademark Office at Reel __, Frame __ on __.

☒ A chain of title from the inventors of the patent application identified above, to the current assignee as shown below. Copies of the assignments or other documents in the chain of title are attached.

1. From Ryusuke Hasegawa, John Silgailis and Donald Allen Grimes to AlliedSignal Inc. recorded in the Patent and Trademark Office at Reel 8583, Frame 0405 on June 30, 1997.

The undersigned has reviewed all the documents in the chain of title of the patent application identified above and, to the best of undersigned's knowledge and belief, title is in the assignee identified above.

The undersigned, whose title is supplied below, is empowered to act on behalf of the assignee.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are

Applicant : Hasegawa et al.
Serial No. :
Filed :
Page : 2

Attorney's Docket No.: 11872-022001 / 30-40*6 US REISSUE

punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.

Respectfully submitted,

Date: February 7, 2001

Roger A. Criss

Roger Criss, Esq.
Title: Assistant Secretary, AlliedSignal Inc.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Hasegawa et al. Art Unit : Unknown
Serial No. : Not yet assigned Examiner : Unknown
Filed :
Title : MAGNETIC CORE-COIL ASSEMBLY FOR SPARK IGNITION SYSTEMS

Commissioner for Patents
Washington, D.C. 20231

STATUS OF CLAIMS AND SUPPORT FOR CLAIM CHANGES
37 C.F.R. §1.173(c)

This paper is being filed concurrently with the reissue application.

Claims 1-7 have not been changed. Claims 8-18 have been added. Claims 1-18 are pending in this reissue application.

New claim 8 is similar to claim 1, but does not recite that the magnetic core is iron-based, does not recite that the core includes certain metallic elements, glass forming elements or semi-metallic elements, and does not specify that the core is heat treated. Instead, claim 8 recites that the core comprises an amorphous metal, is non-gapped and has a permeability ranging from about 100 to 300. Support for these recitations can be found, for example, in col. 3, lines 13-26 of the patent specification. No new matter has been added.

Claims 9 to 11 depend on claim 8, and recite that the amorphous metal is iron based, includes boron and silicon, and that the permeability is achieved by heat treatment, respectively. Such limitations can be found in original claim 1 of the patent, for example. Claim 12 also depends on claim 8, and recites that the output in the secondary coil reaches more than 10kV with a primary current of less than about 120 amp-turns, and reaches more than 20kV with a primary current of 200 to 300 amp-turns within 25-100 μ sec. Support for claim 12 can be found,

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Date of Deposit February 8, 2001

Date of Deposit Valentin Figueron
Signature

Typed or Printed Name of Person Signing Certificate

for example, in col. 3, line 66 to col. 4, line 16, and in col. 4, lines 35-64 of the patent specification. No new matter has been added.

New independent claim 13 is similar to claim 1, but also does not include the limitations discussed above with regard to claim 8. Rather, claim 13 recites that the amorphous metal core is heat treated to have a permeability ranging from about 100 to 300. Support for this recitation can be found, for example, in col. 3, lines 3-15 and lines 52-53 of the patent specification. No new matter has been added.

New claim 14 depends on claim 13, and recites that the amorphous metal includes boron and silicon. Support for this can be found, for example, in claim 1 of the patent. No new matter has been added.

New independent claim 15 is similar to claim 1, but does not include the limitations discussed above with regard to claim 8. Rather, claim 15 recites that the amorphous metal core is non-gapped. Support for this limitation can be found, for example, in col. 3, lines 13-20 of the patent specification. No new matter has been added.

New claim 16 depends on claim 15, and recites that the amorphous metal includes boron and silicon. This is supported, for example, in claim 1 of the patent. No new matter has been added.

New independent claim 17 is also similar to claim 1, but does not include the limitations discussed above with regard to claim 8. Claim 17 instead recites that the iron-based amorphous metal core has a permeability ranging from about 100 to 300. Support for this recitation can be found, for example, in col. 3, lines 3-15 of the patent specification. No new matter has been added.

New claim 18 depends on claim 17 and recites that the amorphous metal further includes boron and silicon. This is supported, for example, in claim 1 of the patent. No new matter has been added.

The applicant has provided the status of all the reissue patent application claims, and has endeavored to indicate the support in the disclosure of the patent for the new claims being added. If the Examiner has any questions, please call the undersigned attorney at the telephone number listed below.

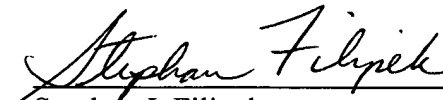
09/26/2001

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REISSUE

Respectfully submitted,

Date: 8 FEBRUARY 2001


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